

PARENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2929.PDD.KPU	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, Item 5 below.	
International application No. PCT/US 99/ 25511	International filing date (day/month/year) 29/10/1999	(Earliest) Priority Date (day/month/year) 31/10/1998
Applicant		

APPLIED MATERIALS, INC.

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the International search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.
 - the International search was carried out on the basis of a translation of the International application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the International application, the International search was carried out on the basis of the sequence listing :
 - contained in the International application in written form.
 - filed together with the International application in computer readable form.
 - furnished subsequently to this Authority in written form.
 - furnished subsequently to this Authority in computer readable form.
 - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the International application as filed has been furnished.
 - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 99/25511A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C23C16/44 C23C14/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 702 098 A (APPLIED MATERIALS INC) 20 March 1996 (1996-03-20) column 7, line 40 -column 11, line 44; claims 1-9	1,5,9, 10,12, 13,16, 18,19
X	US 5 364 496 A (BOLLINGER LYNN D ET AL) 15 November 1994 (1994-11-15) claims 1,3-6,8,10	1,9,10, 12,13, 16,19
A	US 5 805 973 A (ACKERMAN JOHN F ET AL) 8 September 1998 (1998-09-08) column 9, line 30 - line 64 column 13, line 65 -column 14, line 59	1,10,13

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "Z" document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report

28 February 2000

06/03/2000

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INTERNATIONAL SEARCH REPORT

Information on patent family members:

International application No
PCT/US 99/25511

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0702098	A	20-03-1996	US 5756222 A DE 69506064 D DE 69506064 T JP 8181048 A US 5811195 A	26-05-1998 24-12-1998 15-07-1999 12-07-1996 22-09-1998
US 5364496	A	15-11-1994	EP 0639851 A	22-02-1995
US 5805973	A	08-09-1998	CA 2113366 A DE 69412522 D DE 69412522 T EP 0608081 A JP 7003460 A AU 667945 B AU 4619093 A CA 2107430 A DE 69316184 D DE 69316184 T EP 0607651 A JP 2928063 B JP 6240460 A AU 661919 B AU 4619193 A CA 2105188 A DE 69307981 D DE 69307981 T EP 0589679 A JP 2928062 B JP 6212431 A US 5891584 A CA 2062024 A	16-07-1994 24-09-1998 01-04-1999 27-07-1994 06-01-1995 18-04-1996 21-07-1994 16-07-1994 12-02-1998 16-07-1998 27-07-1994 28-07-1999 30-08-1994 10-08-1995 31-03-1994 23-03-1994 20-03-1997 04-09-1997 30-03-1994 28-07-1999 02-08-1994 06-04-1999 26-09-1992